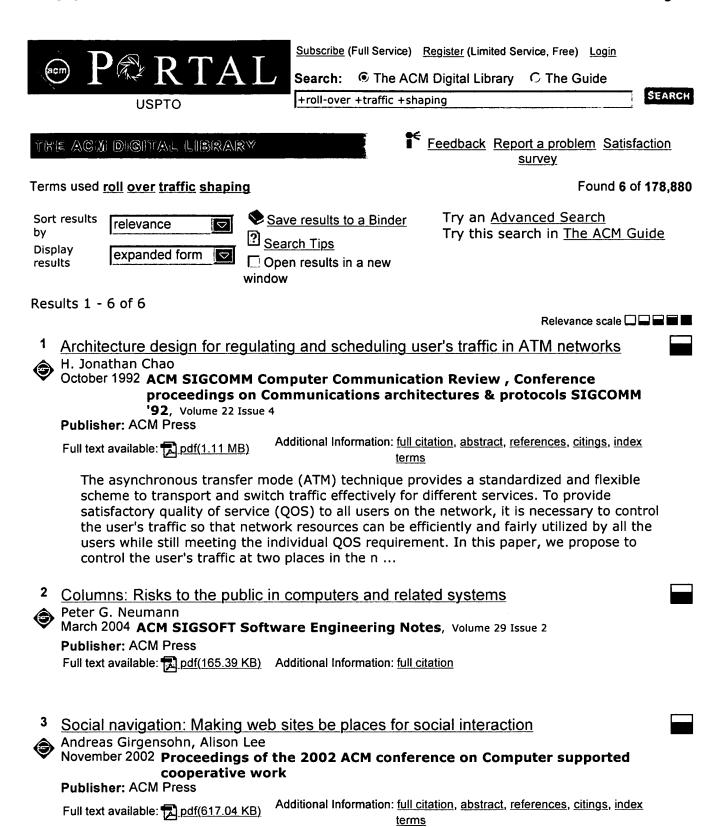


Rapid acceptance of the Web Services architecture promises to make it the most widely supported and popular object-oriented architecture to date. One consequence is that a wave of mission-critical WebServices applications will certainly be deployed incoming years. Yet the reliability options available withinWeb Services are limited in important ways. To use aterm proposed by IBM, Web Services systems need tobecome far more "autonomic," configuring themselves, diagnosing faults, and managing themselv ...

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Technology can play an important role in enabling people to interact with each other. The Web is one such technology with the affordances for sharing information and for connecting people to people. In this paper, we describe the design of two social interaction Web sites for two different social groups. We review several related efforts to provide principles for creating social interaction environments and describe the specific principles that guided our design. To examine the effectiveness of ...

Keywords: awareness, common ground, communication, cooperation, participation, practice and experience, social interaction, usability, usage data, web-based collaboration

4 Two-handed gesture in multi-modal natural dialog

Richard A. Bolt, Edward Herranz

December 1992 Proceedings of the 5th annual ACM symposium on User interface software and technology

Publisher: ACM Press

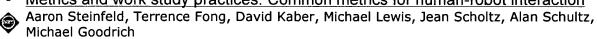
Full text available: pdf(814.27 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Tracking both hands in free-space with accompanying speech input can augment the user's ability to communicate with computers. This paper discusses the kinds of situations which call for two-handed input and not just the single hand, and reports a prototype in which two-handed gestures serve to input concepts, both static and dynamic, manipulate displayed items, and specify actions to be taken. Future directions include enlargement of the vocabulary of two-handed "coverbal" gest ...

Keywords: gestural input, multi-modal interaction, natural dialog

⁵ Metrics and work study practices: Common metrics for human-robot interaction



March 2006 Proceeding of the 1st ACM SIGCHI/SIGART conference on Human-robot interaction HRI '06

Publisher: ACM Press

Full text available: pdf(131.36 KB) Additional Information: full citation, abstract, references, index terms

This paper describes an effort to identify common metrics for task-oriented human-robot interaction (HRI). We begin by discussing the need for a toolkit of HRI metrics. We then describe the framework of our work and identify important biasing factors that must be taken into consideration. Finally, we present suggested common metrics for standardization and a case study. Preparation of a larger, more detailed toolkit is in progress.

Keywords: human-robot interaction, metrics, unmanned ground vehicles

⁶ Visualization components for persistent conversations

Marc A. Smith, Andrew T. Fiore

March 2001 Proceedings of the SIGCHI conference on Human factors in computing systems

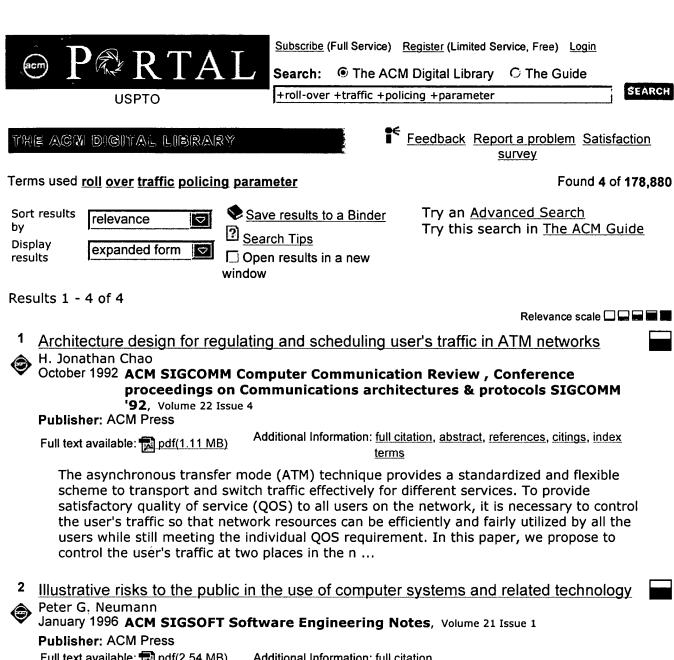
Publisher: ACM Press

Full text available: pdf(550.62 KB)

Additional Information: full citation, abstract, references, citings, index terms

An appropriately designed interface to persistent, threaded conversations could reinforce socially beneficial behavior by prominently featuring how frequently and to what degree each user exhibits such behaviors. Based on the data generated by the Netscan datamining project [9], we have developed a set of tools for illustrating the structure of discussion threads like those found in Usenet newsgroups and the patterns of participation within the discussions. We describe the benefits and cha...

Keywords: Usenet, asynchronous threaded discussions, newsgroup, persistent conversation, social cyberspaces, visualization



Full text available: pdf(2.54 MB) Additional Information: full citation

Link and channel measurement: A simple mechanism for capturing and replaying



wireless channels

Glenn Judd, Peter Steenkiste

August 2005 Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05

Publisher: ACM Press

Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

4 Risks to the public in computers and related systems

July 1999 ACM SIGSOFT Software Engineering Notes, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(460.21 KB)

Additional Information: full citation, index terms

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Relevance scale

Wide area traffic: the failure of Poisson modeling

Vern Paxson, Sally Floyd

June 1995 IEEE/ACM Transactions on Networking (TON), Volume 3 Issue 3

Publisher: IEEE Press

Full text available: pdf(2.18 MB)

Additional Information: full citation, references, citings, index terms

2 The performance of TCP/IP for networks with high bandwidth-delay products and random loss



T. V. Lakshman, Upamanyu Madhow

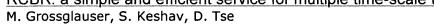
June 1997 IEEE/ACM Transactions on Networking (TON), Volume 5 Issue 3

Publisher: IEEE Press

Full text available: pdf(390.77 KB) Additional Information: full citation, references, citings, index terms

Keywords: TCP/Ip, congestion control, error recovery, flow control, internet, transport protcols

3 RCBR: a simple and efficient service for multiple time-scale traffic



October 1995 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.50 MB)

Additional Information: full citation, abstract, references, citings, index terms

Compressed video traffic is expected to be a significant component of the traffic mix in integrated services networks. This traffic is hard to manage, since it has strict delay and loss requirements, but at the same time, exhibits burstiness at multiple time-scales. In this paper, we observe that slow time-scale variations can cause sustained peaks in the source rate, substantially degrading performance. We use large deviation theory to study this problem and to motivate the design of Renegotiat ...

4 An enforced inter-admission delay performance-driven connection admission control



algorithm

Stanislav Belenki

April 2002 ACM SIGCOMM Computer Communication Review, Volume 32 Issue 2

Publisher: ACM Press

Full text available: pdf(327.06 KB) Additional Information: full citation, abstract, references, index terms

Connection Admission Control (CAC) is an important function in a computer network that supports Quality of Service (QoS). The function of CAC is to decide whether a new connection can be admitted on the network or a part of the network in such a way that the QoS of the new connection and the already established connections will remain within the requested limits. CAC must also ensure that network resources are used efficiently avoiding unnecessary rejections of candidate connections. Some CAC al ...

5 MPICH-GQ: quality-of-service for message passing programs

Alain J. Roy, Ian Foster, William Gropp, Brian Toonen, Nicholas Karonis, Volker Sander November 2000 Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available: pdf(140.75 KB) Additional Information: full citation, abstract, references, citings, index terms Publisher Site

Parallel programmers typically assume that all resources required for a program's execution are dedicated to that purpose. However, in local and wide area networks, contention for shared networks, CPUs, and I/O systems can result in significant variations in availability, with consequent adverse effects on overall performance. We describe a new message-passing architecture, MPICH-GQ, that uses quality of service (QoS) mechanisms to manage contention and hence improve performance of message ...

Keywords: MPI, Quality of Service, Differentiated Services, TCP

6 Dynamic task-based anycasting in mobile ad hoc networks

Prithwish Basu, Wang Ke, Thomas D. C. Little

October 2003 Mobile Networks and Applications, Volume 8 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(518.68 KB) Additional Information: full citation, abstract, references, index terms

Mobile ad hoc networks (MANETs) have received significant attention in the recent past owing to the proliferation in the numbers of tetherless portable devices, and rapid growth in popularity of wireless networking. Most of the MANET research community has remained focused on developing lower layer mechanisms such as channel access and routing for making MANETs operational. However, little focus has been applied on higher layer issues, such as application modeling in dynamic MANET environments. ...

Keywords: anycasting, device/service discovery, distributed application execution, mobile ad hoc networks, task graphs

7 Pricing differentiated services in the GPRS environment

Sergios Soursos, Costas Courcoubetis, George C. Polyzos

July 2003 Wireless Networks, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(916.31 KB) Additional Information: full citation, abstract, references, index terms

The General Packet Radio Service extends the existing GSM mobile communications technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. We adapt the Differentiated Services Quality-of-Service support framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as to publish a unit price for each service class. These prices ...

Keywords: GPRS, QoS, congestion pricing, differentiated services, two-bit differentiation

Network Protocols

Andrew S. Tanenbaum

December 1981 ACM Computing Surveys (CSUR), Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(3.37 MB) Additional Information: full citation, references, citings, index terms

The Click modular router

Robert Morris, Eddie Kohler, John Jannotti, M. Frans Kaashoek

December 1999 ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP

'99, Volume 33 Issue 5

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.46 MB) terms

Click is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called elements. Individual elements implement simple router functions like packet classification, queueing, scheduling, and interfacing with network devices. Complete configurations are built by connecting elements into a graph; packets flow along the graph's edges. Several features make individual elements more powerful and complex configuration ...

10 Pricing differentiated services in the GPRS environment

Sergios Soursos, Costas Courcoubetis, George Polyzos July 2001 Proceedings of the first workshop on Wireless mobile internet

Publisher: ACM Press

Full text available: pdf(645.04 KB) Additional Information: full citation, abstract, references, index terms

The General Packet Radio Service extends the existing GSM mobile communications technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. Since no realization path for Quality-of-Service support has been proposed yet, we adapt the Differentiated Services framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as ...

Keywords: GPRS, congestion pricing, differentiated services, tatonnement, two-bit differentiation

11 Design, implementation, and performance measurement of a native-mode ATM transport layer (extended version)

R. Ahuja, S. Keshav, H. Saran

August 1996 IEEE/ACM Transactions on Networking (TON), Volume 4 Issue 4

Publisher: IEEE Press

Full text available: pdf(1.66 MB)

Additional Information: full citation, references, citings, index terms

Keywords: AAL 5, asynchronous transfer mode, native-mode ATM, personal computer, transport laver

12 Parallel architectures for processing high speed network signaling protocols

Dipak Ghosal, T. V. Lakshman, Yennun Huang

December 1995 IEEE/ACM Transactions on Networking (TON), Volume 3 Issue 6

Publisher: IEEE Press

Full text available: pdf(1.58 MB)

Additional Information: full citation, references, citings, index terms

13 A language-based approach to protocol implementation

Mark B. Abbott, Larry L. Peterson

February 1993 IEEE/ACM Transactions on Networking (TON), Volume 1 Issue 1

Publisher: IEEE Press

Full text available: pdf(1.88 MB)

Additional Information: full citation, references, citings, index terms,

review

14 Efficient fair queueing using deficit round robin

M. Shreedhar, George Varghese

October 1995 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.17 MB)

Additional Information: full citation, abstract, references, citings, index

terms

Fair queuing is a technique that allows each flow passing through a network device to have a fair share of network resources. Previous schemes for fair queuing that achieved nearly perfect fairness were expensive to implement: specifically, the work required to process a packet in these schemes was O(log(n)), where n is the number of active flows. This is expensive at high speeds. On the other hand, cheaper approximations of fair queuing that have been reported in the ...

15 A cell loss equalization protocol for video multiplexers

I. Nikolaidis, I. Akyildiz
October 1994 Proceedings of the second ACM international conference on Multimedia

Publisher: ACM Press

Full text available: pdf(947.92 KB) Additional Information: full citation, abstract, references, index terms

A serious fairness problem occurs whenever homogeneous, variable bit-rate, video traffic streams are multiplexed at a finite buffer statistical multiplexer. Namely, the cell loss ratio performance varies widely across individual traffic streams. The cause of the problem is the particular random relation of the periodic frame transmission epochs of the video sources that feed the multiplexer. In this paper a protocol is presented which controls the frame transmission epochs, in order to achi ...

16 Evaluating alternative plans for guiding tourism on Nantucket Island

Douglas P. Schleusner, Eugene E. Kaczka

December 1977 Proceedings of the 9th conference on Winter simulation - Volume 1

Publisher: Winter Simulation Conference

Full text available: pdf(507.16 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses the application of a GPSS (General Purpose Simulation System) model to a unique planning situation on Nantucket Island, Massachusetts. Various factors influencing levels of tourism are evaluated in addition to resultant economic and environmental impacts. Specifically, passive regulation of visitor traffic via ferry schedule modification is examined in relation to daily expenditures by visitor type versus the associated costs of increased police and medical services, wa ...

17 GPS-based geographic addressing, routing, and resource discovery

Tomasz Imieliński, Julio C. Navas

April 1999 Communications of the ACM, Volume 42 Issue 4

Publisher: ACM Press

Full text available: pdf(329.24 KB) Additional Information: full citation, references, citings, index terms, html(32.72 KB)

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